GRADE 7

1. What percent of the circles below is shaded?
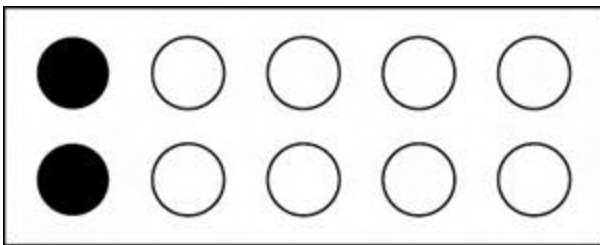
A. 1%
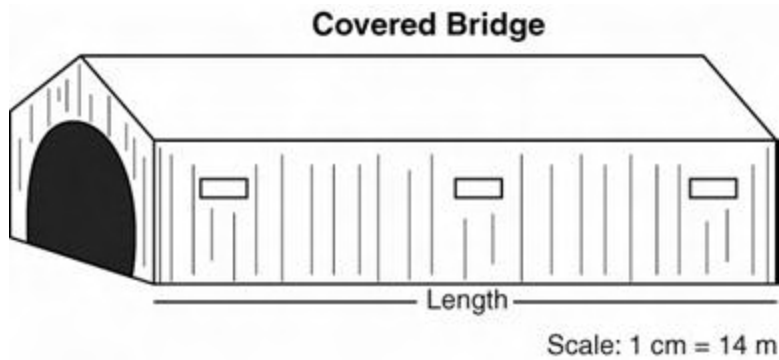
B. 2%

C. 20%

D. 25%

GRADE 7

Item Number 140603   Key C   Montana Standard 5
Measurement

Use the scale drawing below and the ruler from your white envelope to answer question the question below.

Covered Bridge

Length

Scale: 1 cm = 14 m

1. According to the scale shown, which measurement is closest to the actual length of the covered bridge?
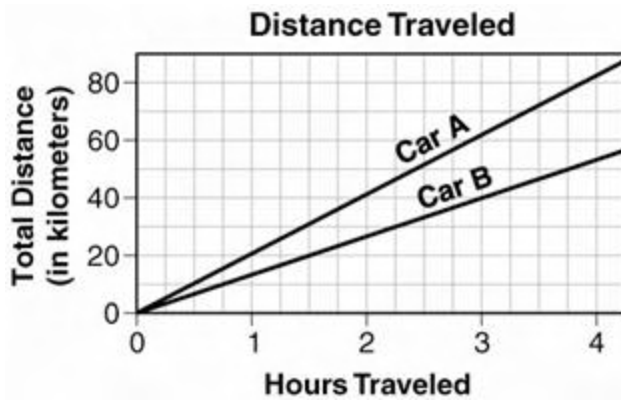
    A.   85 m

    B. 100 m

    C. 115 m

    D. 130 m

GRADE 7

The graph below shows the distances traveled by two cars.

Distance Traveled

Total Distance
(in kilometers)

80
60
40
20
0

0   1   2   3   4

Car A

Car B

Hours Traveled

How much longer does it take for Car B to go 50 kilometers than it does for Car A to go 50 kilometers?

A. 1 hour, 15 minutes

B. 1 hour, 30 minutes

C. 2 hours

D. 2 hours, 30 minutes

GRADE 7

Item Number 86567 Key: D   Montana Standard 6
Data, Statistics, Probability

Use the picture below to answer the question.

Ryan turned these cards facedown and mixed them up. What is the probability that the first card he turns over will be an E?
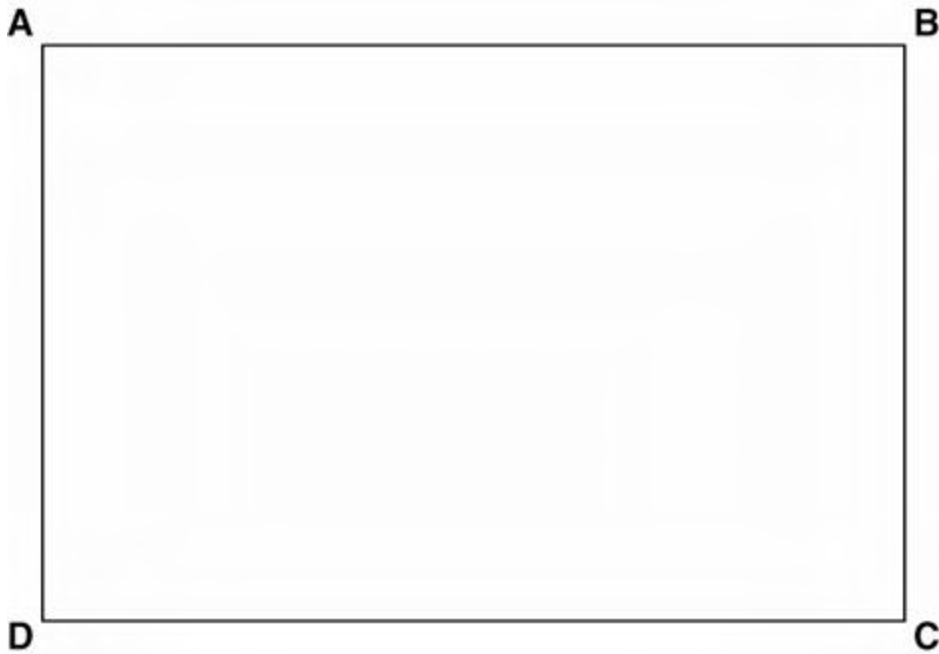
A. $\dfrac{1}{5}$

B. $\dfrac{2}{3}$

C. $\dfrac{1}{3}$

D. $\dfrac{3}{5}$

GRADE 7

CONSTRUCTED RESPONSE   **Montana Standard 4**
Geometry

Use the figure below and your ruler to answer the question.

A ┌──────────────────────────┐ B
  │   │
  │   │
  │   │
  │   │
  │   │
  │   │
D └──────────────────────────┘ C

1. In your Student Response Booklet, draw a new rectangle, EFGH, **similar** to rectangle ABCD, so that the length of each side of rectangle EFGH is $\frac{1}{2}$ the length of the corresponding side of rectangle ABCD.

2. On rectangle EFGH, write the measures of the length of $\overline{EF}$ and the length of $\overline{FG}$.

3. How many times greater is the area of rectangle ABCD than the area of rectangle EFGH? Show your work or explain how you found your answer.